

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	10/657,309
Filing Date	09-08-03
First Named Inventor	Robin G. Skinner
Art Unit	3746
Examiner Name	Koczo
Attorney Docket Number	TEC1213/C-505

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
MK ↓		US- Re. 25,569	05-05-1964	Coron et al.	
		US- 4,089,613	05-16-1978	Babbitt, Jr.	
		US- 4,518,276	05-21-1985	Mitchell, et al.	
		US- 4,685,188	08-11-1987	Goy	
		US- 5,247,738	09-28-1993	Yoshii	
		US- 5,312,234	05-17-1994	Yoshii	
		US- 5,634,781	06-03-1997	Yoshida et al.	
		US- 6,247,910	06-19-2001	Yokoyama	
		US- 6,280,154	08-28-2001	Clendenin et al.	
		US-			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> Number * Kind Code <sup>4</sup> (if known)				

Examiner  
Signature

/Michael Koczo Jr/

Date  
Considered

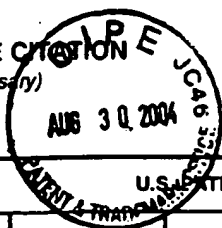
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ATTY DOCKET NO.

TEC1213-01/C-505

APPLICATION NO.

10/657,309

APPLICANT(S)

Robin G. Skinner

FILING DATE

September 8, 2003

GROUP ART UNIT

3746

~~3748~~

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MK	Re. 34,297	06/29/1993	Elson	417	372	
↓	2,661,172	12/01/1953	Needham	248	19	
↓	3,039,725	06/19/1962	Kerley, Jr.	248	20	
↓	3,145,960	08/25/1964	Langdon	248	13	
↓	3,749,340	07/31/1973	Williams et al.	248	24	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MK	2001/0055536	12/27/2001	Bernardi et al.	418	55.6	
MK	2001/0006603	07/05/2001	Hong et al.	418	55.1	

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
MK	JP402061382A	03/01/1990	Japan	X	X		
↓	JP407259764A	10/09/1995	Japan				
↓	JP61087994	05/06/1986	Japan				
↓	JP2001020881A	01/23/2001	Japan				
↓	JP2002021729A	01/2002	Japan				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)


EXAMINER /Michael Koczko Jr/

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09/07/2006

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				Robin G. Skinner				
				FILING September 8, 2003		GROUP ART 3746 <del>3748</del>		
<b>U.S. PATENT DOCUMENTS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MK		3,785,167	01/15/1974	Sahs	62	296		
↓		4,244,680	01/13/1981	Ishizuka et al.	418	97		
↓		4,389,171	06/21/1983	Eber et al.	418	15		
↓		4,416,594	11/22/1983	Ichikawa	417	360		
↓		4,497,615	02/05/1985	Griffith	417	310		
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MK		JP10148191A	06/1998	Japan	X	X		
↓		JP2002098056A	04/2002	Japan				
↓		2 755 477 A1	11/15/1997	France				
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
EXAMINER /Michael Koczko Jr/				DATE CONSIDERED 09/07/2006				
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				FILING <b>September 8, 2003</b>		GROUP ART <b>3746 9940</b>		
<b>U.S. PATENT DOCUMENTS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MR		4,552,518	11/12/1985	Utter	418	55		
		4,557,677	12/10/1985	Hasegawa	418	63		
		4,767,293	08/30/1988	Caillat et al.	418	55		
		4,792,288	12/20/1988	Gromoll et al.	417	278		
		4,818,198	04/04/1989	Tamura et al.	418	55		
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GROUP ART

**3746 3748**

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MK	4,877,382	10/31/1989	Caillat et al.	418	55	
	4,992,033	02/12/1991	Caillat et al.	418	55.3	
	5,012,896	05/07/1991	Da Costa	184	6.16	
	5,055,010	10/08/1991	Logan	417	410	
V	5,062,779	11/05/1991	Da Costa	418	270	

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FILING  
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GROUP ART  
**3746 3746**

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MR	5,110,268	05/05/1992	Sakurai et al.	417	410	
	5,114,322	05/19/1992	Caillat et al.	418	55.6	
	5,137,437	08/11/1992	Machida et al.	418	55.1	
	5,176,506	01/05/1993	Siebel	417	368	
	5,211,031	05/18/1993	Murayama et al.	62	498	

## **U.S. PATENT APPLICATION PUBLICATIONS**

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GROUP ART UNIT

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MR	5,219,281	06/15/1993	Caillat et al.	418	55.6	
	5,222,885	06/29/1993	Cooksey	418	96	
	5,224,845	07/06/1993	Mangyo et al.	417	423.13	
	5,240,391	08/31/1993	Ramshankar et al.	417	410 R	
	5,345,785	09/13/1994	Sekigami et al.	62	468	

## **U.S. PATENT APPLICATION PUBLICATIONS**

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MR	5,345,970	09/13/1994	Leyderman et al.	137	856	
	5,346,375	09/13/1994	Akiyama et al.	418	15	
	5,348,455	09/20/1994	Herrick et al.	418	63	
	5,370,156	12/06/1994	Peracchio et al.	137	856	
	5,391,066	02/21/1995	Sawal et al.	418	55.6	

## **U.S. PATENT APPLICATION PUBLICATIONS**

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MR		5,427,511	06/27/1995	Caillat et al.	418	55.1		
		5,474,433	12/12/1995	Chang et al.	418	55.4		
		5,487,648	01/30/1996	Alfano et al.	417	312		
		5,522,715	06/04/1996	Watanabe et al.	418	55.1		
		5,531,577	07/02/1996	Hayase et al.	418	55.1		
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MR		5,533,875	07/09/1996	Crum et al.	417	368		
		5,579,651	12/03/1996	Sugiyama et al.	62	469		
		5,580,233	12/03/1996	Wakana et al.	418	94		
		5,597,293	01/28/1997	Bushnell et al.	417	410.3		
↓		5,597,296	01/28/1997	Akazawa et al.	418	55.1		
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MX	5,645,408	07/08/1997	Fujio et al.	418	55.4	
	5,660,539	08/26/1997	Matsunaga et al.	418	55.6	
	5,683,237	11/04/1997	Hagiwara et al.	418	55.2	
	5,695,326	12/09/1997	Oka et al.	418	55.1	
V	5,716,202	02/10/1998	Koyama et al.	418	55.6	

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<b>MX</b>	<b>5,720,601</b>	<b>02/24/1998</b>	<b>Tark et al.</b>	<b>417</b>	<b>569</b>	
	<b>5,745,992</b>	<b>05/05/1998</b>	<b>Caillat et al.</b>	<b>29</b>	<b>888.022</b>	
	<b>5,752,688</b>	<b>05/19/1998</b>	<b>Campbell et al.</b>	<b>248</b>	<b>674</b>	
	<b>5,769,126</b>	<b>06/23/1998</b>	<b>Cho</b>	<b>137</b>	<b>856</b>	
<b>↓</b>	<b>5,772,411</b>	<b>06/30/1998</b>	<b>Crum et al.</b>	<b>417</b>	<b>368</b>	

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	5,863,190	06/26/1999	Yamamoto et al.	418	55.1	

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		5,931,650	08/03/1999	Yasu et al.	418	55.3		
		5,947,709	09/07/1999	Koyama et al.	418	55.6		
↓		5,964,581	10/12/1999	Iizuka et al.	417	410.3		
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	6,039,551	03/21/2000	Takeuchi et al.	418	88	
↓	6,050,794	04/18/2000	Noboru et al.	418	55.6	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


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**/Michael Koczko Jr/**DATE CONSIDERED  
**09/07/2006**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# **INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

ATTY DOCKET NO.  
**TEC1213-01/C-505**

APPLICATION NO.  
**10/657,309**

**Robin G. Skinner**

FILING  
**September 8, 2003**

GROUP ART  
**3746 9748**

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MK	6,056,523	05/02/2000	Won et al.	418	15	
	6,106,254	08/22/2000	Hirooka et al.	418	55.6	
	6,132,191	10/17/2000	Hugenroth et al.	418	55.1	
	6,139,291	10/31/2000	Perevozchikov	418	55.1	
↓	6,156,106	12/05/2000	Kamata	96	189	

## **U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## **FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## **OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER /Michael Koczko Jr/

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**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

ATTY DOCKET NO.

TEC1213-01/C-505

APPLICATION NO.

10/657,309

APPLICANT(S)

Robin G. Skinner

FILING DATE

September 8, 2003

GROUP ART UNIT

3746 3746

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MK	6,162,035	12/19/2000	Hayano et al.	418	220	
	6,167,719	01/02/2001	Yakumaru et al.	62	468	
	6,171,076	01/09/2001	Gannaway	417	350	
	6,179,589	01/30/2001	Bass et al.	418	55.1	
	6,186,753	02/13/2001	Hugenroth et al.	418	55.1	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


EXAMINER

/Michael Koczko Jr./

DATE CONSIDERED

09/07/2006

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**INFORMATION DISCLOSURE CITATION***(Use several sheets if necessary)*ATTY DOCKET NO.  
**TEC1213-01/C-505**APPLICATION NO.  
**10/657,309****Robin G. Skinner**FILING  
**September 8, 2003**GROUP ART  
**3746 9748****U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MX	6,224,356	05/01/2001	Dewar et al.	418	55.1	
	6,227,830	05/08/2001	Fields et al.	418	55.1	
	6,261,073	07/17/2001	Kumazawa	418	63	
	6,264,446	07/24/2001	Rajendran et al.	418	55.6	
	6,299,423	10/09/2001	Perevozchikov	418	55.1	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


EXAMINER  
**/Michael Koczko Jr/**DATE CONSIDERED  
**09/07/2006**

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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	ATTY DOCKET NO. <b>TEC1213-01/C-505</b>	APPLICATION NO. <b>10/657,309</b>
	Robin G. Skinner	
	FILING <b>September 8, 2003</b>	GROUP ART <b>3746 <del>3748</del></b>

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MX	6,305,912	10/23/2001	Svensen et al.	417	312	
MX	6,402,485	06/11/2002	Hong et al.	417	366	

**U.S. PATENT APPLICATION PUBLICATIONS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS *	SUBCLASS	FILING DATE IF APPROPRIATE

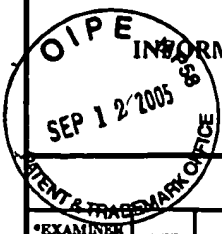
**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


EXAMINER     /Michael Kocz Jr/	DATE CONSIDERED     09/07/2006
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 <p><b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets (if necessary))</p>				Docket Number (Optional) <b>TEC1213-01/C-505</b>		Application Number <b>10/657,309</b>		
				Applicant(s) <b>Robin G. Skinner</b>				
				Filing Date <b>September 8, 2003</b>		Group Art Unit <b>3746 -3748</b>		
<b>U.S. PATENT DOCUMENTS</b>								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<b>FOREIGN PATENT DOCUMENTS</b>								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
MK		JP 2001271752A	10/05/2001	Japan (*)	X	X	✓	
MK		JP05288171A	11/02/1993	Japan (*)			✓	
<b>OTHER DOCUMENTS</b> (Including Author, Title, Date, Pertinent Pages, Etc.)								
		(*) = Japanese document together with English language abstract						
EXAMINER /Michael Koczko Jr/					DATE CONSIDERED 09/07/2006			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				Docket Number (Optional) <b>C-505 / TEC1213-01</b>		Application Number <b>10/657,309</b>	
				Applicant(s) <b>Robin G. Skinner</b>			
				Filing Date <b>September 8, 2003</b>		Group Art Unit <b>3746</b>	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

U.S. PATENT APPLICATION PUBLICATIONS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS								
MK	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
↓ ↓ ↓		2000-205152	07/2000	Japan (*)	X	X	✓	
		10-061567	03/1998	Japan (*)			✓	
		09-032752	02/1997	Japan (*)			✓	

OTHER DOCUMENTS		<i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>

EXAMINER <b>/Michael Koczko Jr/</b>	DATE CONSIDERED <b>09/07/2006</b>
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